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### UTILITY PATENT APPLICATION TRANSMITTAL Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. First Inventor or Application Identifier Title Express Mail Label No.

Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) Microfiche Computer Program (Appendix) 5. (Submit an original and a duplicate for fee processing) Nucleotide and/or Amino Acid Sequence Submission Specification 2. Total Pages (if applicable, all necessary) (preferred arrangement set forth below) Computer Readable Copy - Descriptive title of the Invention - Cross References to Related Applications b. Paper Copy (identical to computer copy) - Statement Regarding Fed sponsored R & D C. Statement verifying identity of above copies - Reference to Microfiche Appendix - Background of the Invention **ACCOMPANYING APPLICATION PARTS** - Brief Summary of the invention 7. Assignment Papers (cover sheet & document(s)) Brief Description of the Drawings (if filed) 37 C.F.R.§3.73(b) Statement | Power of - Detailed Description 8. (when there is an assignee) Attorney - Claim(s) English Translation Document (if applicable) 9 - Abstract of the Disclosure Information Disclosure Copies of IDS Drawing(s) (35 U.S.C. 113) [Total Sheets Statement (IDS)/PTO-1449 Citations Preliminary Amendment Oath or Declaration Return Receipt Postcard (MPEP 503) Newly executed (original or copy) 12. (Should be specifically itemized) Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 16 completed) Small Entity Statement filed in prior application, Statement(s) Status still proper and desired **DELETION OF INVENTOR(S)** (PTO/SB/09-12) i. Signed statement attached deleting Certified Copy of Priority Document(s) inventor(s) named in the prior application, (if foreign priority is claimed) see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). Request Under MPEP\$ 707.07(1) 5. Other: " NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY WALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON 137 C.F.R. 6 128). 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: Continuation Divisional Continuation-in-part (CIP) of prior application No: Prior application information: Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Correspondence address below (Insert Customer No. or Attach bar code labet here, Name Address 20723 City aure State Maryland Zip Code 410/880-0863 Telephone Fax 410/880-1254 Country Registration No. (Attorney/Agent) Name (Print/Type) earnat. Onomela

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# FEE TRANSMITTAL for FY 1999

Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

TOTAL AMOUNT OF PAYMENT

Complete if Known					
Application Number					
Filing Date					
First Named Inventor	Deanna T. Ongwela				
Examiner Name	J				
Group / Art Unit					
Attorney Docket No.					

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)				
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STATEMENT CLAIMING SM (37 CFR 1.9(f) & 1.27(b))-IN		Docket Number (Optional)						
Applicant, Patentee, or Identifier:	Deanna T. Ongwela							
Application or Patent No.:	J							
FiledorIssued:								
Title: Massage and T	actile Stimulation Devi	ico						
As a below named inventor, I here for purposes of paying reduced fe	eby state that I qualify as an independent ses to the Patent and Trademark Office de	inventor as defined in 37 CFR 1.9(c) escribed in:						
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Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)  I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))								
Sanna T. Ongwela	NAME OF INVENTOR	NAME OF INVENTOR						
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#### Patent Application of

#### Deanna T. Ongwela

for

### MASSAGE AND TACTILE STIMULATION DEVICE

### **Background—Field of Invention**

This invention relates to a new and improved massage and tactile stimulation device having predetermined prominent projections with or without friction areas, for manual control and operation.

### Background—Description of Prior Art

Manual massage and tactile stimulation has been performed by the hand for years.

Hand held objects or paraphernalia for massage and tactile stimulation, manual or electric, have been invented to assist with the task.

Massage gloves having a receptacle or receptacles adapted to accommodate a substance or substances during the massage have been invented as shown in U.S. patent 1,161,719 to Norton. However, these gloves do not address massage to deeper tissues.

Thereafter, U.S. patent 1,885,572 to Wood shows a massage glove with transverse ribs or ridges on the finger tips and a series or multiplicity of massaging elements or vacuum cups in the palm of the hand. The massaging elements and vacuum cups effect a combined

friction and traction upon the patient's body. This glove relies heavily upon the palm for effective execution. As well, it does not address massage to deeper tissues due to lack of massaging elements prominence.

A massage device utilized for lather formation and softening a man's beard is shown in U.S. patent 1,438,485 to Goldberg. It can also be utilized to receive and retain soap. This device massages the cutaneous covering, at best, not addressing the deeper tissues or advanced manipulations.

Animal gloves for massage and grooming with a plurality of bristles on the palm or palm and fingers are described in U.S. patent Nos. 5,768,709 to Newkirk et al. and 5,682,837 to Courtney et al. An animal grooming glove with a plurality of rubber projections having an internal portion including a substantially rigid material is shown in U.S. patent 5,524,575 to Lennon. These devices, though suitable for animals, are not suitable for human massage.

A scalp massaging implement for the finger with a rubber fingertip covering and a plurality of flexible rubber tines is illustrated in U.S. patent 4,308,860 to Sanders et al. A finger or hand mounted brush with bristles or plurality of bumps or a combination is shown in U.S. patent 5,765,252 to Carr for effective cleaning and massage. An implement for massaging the cutaneous covering is illustrated in U.S. patent 4,249,521 to Gueret. While sports gloves having a plurality of friction elements for enhancing the grip, control, and improving skills have been invented including the basketball glove in U.S. patent 5,500,956 to Schulkin et al. The projections of these inventions lack the prominence and shape necessary for massage to deeper tissues and are suitable for the cutaneous covering, at best.

Hand apparel with cleaning instrumentalites are shown in U.S. patent Nos. 3,643,386 to Grzyll, 5,441,355 to Moore, 4,593,427 to Ortolivo, and 5,419,014 to Piantedosi. There is no disclosure of these gloves as a massaging device for humans.

Massage footwear having foot stimulating, dome-shaped, spaced massage bumps and nonspecific rounded projections with areas that are lightly stippled to prevent slippage is illustrated in U.S. patent 4,694,831 to Seltzer. However, this is utilized in footwear or as a sole insert having defined accupressure bumps. These bumps are arranged to affect at least 12 key meridians of body function. There is no disclosure for use as a hand covering or versatility of location for use on other areas of the body.

The aforementioned inventions do not address the need for deep pressure, concentrated point specific pressure, vigorous rubbing on the skin, or handling of the muscles to relieve muscle spasms, trigger points, or the like during massage. The masseur must utilize a considerable amount of muscle energy, along with force and pressure on their joints for the benefits of massage to be realized on some recipients.

### **Objects and Advantages**

Among the objects of this invention is to provide a new and improved massage and tactile stimulation device in the nature of a hand covering such as a mitt, mitten, or glove worn upon the hand of the user, masseur, or therapist. More specifically, a glove having prominent projections of at least 0.14 inches (3.5 mm) in height, to facilitate deep and point specific pressure on the recipient, being with or without friction areas. These instrumentalities, secured at effective working areas, provide for distinct and improved manipulations over the human hand.

The advantages of this invention as here outlined are best realized when all of its features and instrumentalities are combined in one and the same structure, but, useful devices may be produced embodying less than the whole.

Advantages include but are not restricted to:

 a) improved force and concentrated pressure on recipient due to prominence of projections;

- b) decreased direct force needed on joint's of manipulator's body to deliver improved manipulations to recipient;
- c) will stimulate deep pressure receptors in skin of desensitized limbs or parts of the body;
- d) enhances the tactile stimulation or massage of a layperson to a recipient without formal education of manual techniques.

Additional objects, advantages, and novel features of the invention will be set forth in part in the description which follows of the preferred embodiment, pointed out in the subjoined claims, and illustrated on the annexed drawing, wherein like parts are designated by the same reference throughout. Others will become apparent to those skilled in the art upon examination of this description or may be learned by practice of the invention.

### **Brief Description of the Drawings**

Figure 1 shows the right palm view of the preferred embodiment of the glove.

Figure 2 shows a cross-sectional view taken along line 2-2 of Fig.1 illustrating use of a hemispherical projection.

Figure 3 shows an indented cone shape projection.

Figure 4 shows an elongated projection.

Figure 5 shows a canal shaped projection.

Figure 6 shows a second embodiment formed as a fist with the projection of Fig. 4 in place.

## Reference Characters In Drawings

2 cross-section through fifth digit 18 cone shaped projection

10 glove of preferred embodiment 19 indentation

12 hemispherical projection on pad of digit(s) 20 back view of second embodiment in fist

14 elliptical friction area 22 elongated projection

16 circular friction area 24 canal shaped projection

### F surface of recipient

### Summary

This invention provides a massage and tactile stimulation device, comprising a flexible glove, having predetermined prominent projections with or without friction areas. Both instrumentalities may be of various shapes, predetermined sizes, colors, textures, and forms secured to the glove at effective working areas, in varied or distinct patterns.

#### **Description**

It will be obvious to those skilled in the art to which this invention appertains, that the same may be incorporated in several different constructions. It will be understood this device may be made in various sizes or different specific designs. It must be clearly understood that although each finger of the glove in Fig.1 is provided with a predetermined prominent projection for deep pressure, only one of the fingers may be provided with a projection. If desired, only a single finger tip can be used for applying deep pressure.

Therefore, the accompanying drawing is submitted merely as showing the preferred embodiment of this device. Application can be made to either hand of the manipulator. The illustration is that of a right hand appliance.

Referring now more particularly to the drawing, illustrated is a device as comprising a glove 10. Glove 10 is made of any suitable resilient material of good quality such as lycra or spandex, being made by sewing or the like, in the preferred embodiment.

In the preferred embodiment, glove 10 has a predetermined prominent (FIG. 2) projection 12, illustrated as hemispherical. In a second embodiment, glove 20 (FIG. 6) has predetermined prominent projection 22 (FIGs. 4 and 6), illustrated as an elongated projection.

Projections 12 and 22 adhere to glove 10 and 20 by virtue of pressure sensitive adhesion or other method for bonding rubber to cloth, that provides stationary bonding. Projections 12 and 22 are secured to glove 10 and 20 at effective working areas to optimize use. Projection 12 is located on the pad of each digit. Projection 22 is located on the back of the first row of phalanges (proximal) to impart considerable force and pressure to the recipient when glove 20 is held in a clenched fist (FIG 6).

Projections 12 and 22 are applied to the surface of recipient F (FIG.2) with a stationary pressure or varied by a deep circular motion or frictional rubbing, either by full arm movement or merely the pressure of the digit(s). These techniques stimulate the sensory nerve endings for deep pressure, increase blood flow to area, and relieve muscle tension.

The preferred embodiment includes friction areas 14 and 16. Area 14 is elliptical in shape covering the palm pad of the thumb (thenar). Area 16 is circular in shape covering the pisiform bone located at base of the fifth digit pad (hypothenar). Adhered to glove 10 by the same method as projections 12 and 22, areas 14 and 16 are made of a rubber-like material with a sufficient coefficient of friction to facilitate improved manual manipulations such as grasping and frictional rubbing. Areas 14 and 16 are secured to glove 10 at effective working areas such as the palm region, between the thumb and index finger (not shown), and lateral fifth digit region (not shown). Areas 14 and 16 enhance manual manipulations over the human hand.

It will be understood that the device may be made in various sizes, varied or different specific designs, and for application to either hand of the manipulator. It is self evident with the device as illustrated, the projections (FIG. 2, 3, 4 and 5) and friction areas can be of various shapes, predetermined sizes, colors, forms, and textures. They can be varied on the

same glove, as well. Both can be secured to the glove at various effective working areas to maximize function of device and assistance to the manipulator.

The material for making this device can be of any with stretching capabilities, but grossly maintains its shape. This device can be made as any type of hand covering. An alternative to a hand covering is a covering for the elbow or foot (both not shown), as these areas are used for imparting massage, as well. However, use on the hand is the preferred embodiment.

Furthermore, various changes and modifications may be made to the embodiments described without departing from the scope of the present invention defined in the appended claims.

#### Conclusion, Ramifications, and Scope of Invention

Thus the reader will see that the massage and stimulation device of this invention provides the manipulator with enhanced massage techniques and ease of use. In addition, it imparts to the recipient a multiplicity of improved manipulations due to the prominent projections of at least 0.14 inches (3.5mm) in height and friction areas.

The above description should not be construed as limitations on the scope of this invention, but rather as an exemplification of a preferred embodiment thereof. Many other variations are possible. For example, the glove can have a prominent projection of any predetermined size and shape on one digit only, such as the pad of the thumb. This device can appear as a functional hand covering that is used as a pouch with a prominent projection having the diameter of the central palm region. If desired, the glove can be manufactured without friction areas. The glove material can be textured for additional sensory input, particularly for desensitized limbs or areas of the body.

An improvement can include a rubber-like glove with a breathing mechanism, to decrease moisture on the hand, made by molding or the like. The glove and its instrumentalities, can be made of a rubber-like material for sanitary use in a healthcare setting, increasing its use in settings with multiple clients.

Thus the scope of the invention should be determined not by the embodiment illustrated, but by the appended claims and their legal equivalents.

Claims: I claim:

- 1. A massage and tactile stimulation device comprising a hand covering constituting a flexible glove made of any suitable resilient material having a palm wall and a back wall, said walls connected by a means for joining two pieces of material, said glove having one or more predetermined upward projections secured at effective working areas of the glove, said projection being made of a rubber-like material providing a means for deep and point specific pressure to affect deeper tissues, said projection attached to said glove by means providing for stationary bonding, said device being with or without one or more friction areas made of a rubber-like material having a sufficient coefficient of friction to provide a means for imparting to the recipient improved manual manipulations, said friction area attached to said glove at effective working areas by means providing for stationary bonding.
  - 2. The glove of claim 1 wherein said resilient material is lycra or spandex.
  - 3. The glove of claim 2 wherein said means for joining 2 pieces of material includes sewing.
  - 4. The glove of claim 3 wherein said rubber-like material of said projection is composed of polyurethane.
  - 5. The glove of claim 4 wherein said effective working area for said projection include the pad of digits, palm, and region of the first row of proximal phalanges.
  - 6. The glove of claim 5 wherein said stationary bonding for said projections and said friction area is pressure sensitive adhesion.

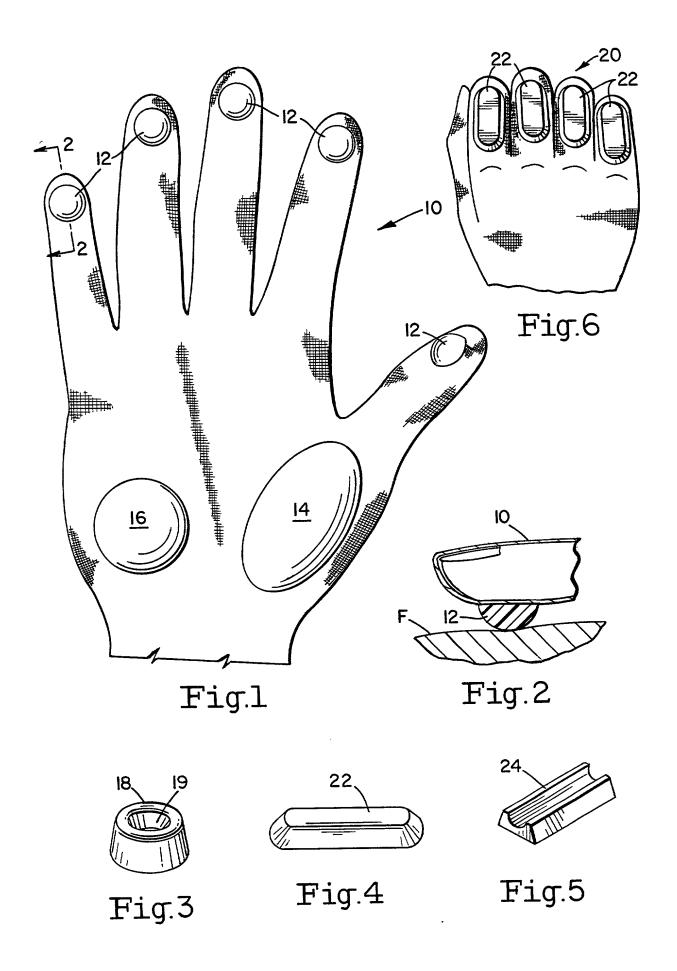
- 7. The glove of claim 6 wherein said projection and said friction area can be of any shape, predetermined size, color, form, and texture including smooth and pimpled, and be varied on the same said glove.
- 8. A massage and tactile stimulation device for manual control and operation constructed of a flexible rubber-like material that contours to the anatomy of the underlying joints and part of body covered by said device, said device having one or more predetermined prominent projections made of a rubber-like material providing a means for deep and point specific pressure to affect deeper tissues of recipient of said device, said projections located at effective working areas of said device, said device being with or without one or more friction areas, said friction areas made of a rubber-like material having a sufficient coefficient of friction to provide a means for imparting to the recipient improved manual manipulations, said friction areas located at effective working areas of said device,
  - The device of claim 8 wherein said parts of body covered by said device include the hand, elbow, and foot.
  - 10. The device of claim 9 wherein said effective working areas for said projections include the finger pads, palm, and sole of the foot.

whereby said device will impart deep pressure and improved manipulations to said recipient, and

whereby said manipulator of said device will utilize said projection and said friction area to optimize the benefits of massage and tactile stimulation to said recipient.

#### MASSAGE AND TACTILE STIMULATION DEVICE

Abstract: A massage and tactile stimulation device in the nature of a hand covering such as a mitt, mitten, or glove (10, 20)) to be worn on the hand of a masseur, therapist, or user (recipient) preferably in the embodiment of a glove (10). The device having one or more predetermined prominent projections (12,18, 22, 24) with or without friction areas (14,16). Both projections (12,18, 22, 24) and friction areas (14,16) may be of various shapes, sizes, colors, forms, and textures including smooth or pimpled. Both projections (12,18, 22, 24) and friction areas (14, 14') are secured to effective working areas of glove (10,20) to impart to a subject or patient a variety of distinct and improved manipulations such as deep pressure, grasping, and frictional rubbing.



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#### **Attorney Docket Number** DECLARATION FOR UTILITY OR Dearna T. Orgwela **First Named Inventor DESIGN** <u>COMPLETE IF KNOWN</u> PATENT APPLICATION (37 CFR 1.63) **Application Number** Filing Date ☑ Declaration □ Declaration Submitted OR Submitted after Initial Group Art Unit Filing (surcharge (37 CFR 1.16 (e)) with Initial Filing **Examiner Name** required)

As a below named invent	or, I hereby declare that	t:							
My residence, post office a	ddress, and citizenship a	re as stated below next to my	name.						
I believe I am the original, f names are listed below) of	irst and sole inventor (if o the subject matter which	only one name is listed below) is claimed and for which a pa	or an original, fi	rst and joint inve	entor (if plural ntitled:				
Massage	and Tactile	Stimulation	Device	2					
the specification of which is attached hereto	O	Title of the Invention)							
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I hereby state that I have rev amended by any amendmen		ne contents of the above ident above.	tified specification	n, including the	claims, as				
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	***************************************	I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.							
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